

L 24401-65

ACCESSION NR: AT5003282

the single scattering approximation; 2) the greatest attention has been devoted to studies of the spatial radiation distribution while data characterizing the spectral-angular distribution are almost nonexistent; 3) the contribution of the scattered radiation within the primary beam is negligibly small; 4) the shape of the distribution function within the beam depends on the radiation scattered within the collimator whenever its diameter exceeds 1 cm and the collimation angle is larger than 1° ; and 5) the spatial distribution of the γ -scattered radiation is basically exponential. A similar pattern is found in the case of fission neutrons in water and iron. Orig. art. has: 3 formulas and 4 figures.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 014

OTHER: 008

Card 2/2

PANCHENKO, A.M., kand.tekhn.nauk (Riga)

Determination of the required number of measurements in the experimental determination of electrical loads. Elektricheskoye stroitel'stvo 1965, No. 18, p. 10.

L 1306-66 EWT(m)/ETC/EWG(m)/EFF(n)-2

ACCESSION NR: AT5023156

UR/2892/65/000/004/0098/0101

AUTHOR: Panchenko, A. M.

TITLE: Spectral angular distribution of radiation from the side walls of a channel in shielding

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniya, no. 4, 1965, 98-101

TOPIC TAGS: neutron radiation, radiation scattering, neutron source, neutron shielding, Monte Carlo method

ABSTRACT: The article is devoted to a consideration of the spectral angular distribution of radiation from the walls of a channel based on data for a monodirectional point source and calculated by the Monte Carlo method. It is assumed that on an iron barrier with a thickness t , there falls an infinite parallel bundle of gamma quanta with an initial energy of 0.661 Mev (See enclosure 01). The article considers the spectral angular distribution of the scattered gamma quanta at point A at a distance h from the forward wall of the barrier. In this case, as a result of the azimuthal symmetry of the infinite plane monodirectional source, the

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spectral distribution will be a function only of the angle Θ . Results of calculations for the point $h = 4$ cm are shown in the form of a bar graph. The article goes on to consider the case where there is a rectangular channel in the shielding barrier. It is concluded that the presence of a channel in the shielding barrier should not exert a noticeable effect on the spectral angular distribution of scattered radiation, except for the hard section of the spectrum at small values of the angle θ . The calculations permit the conclusion that under the above mentioned conditions a detailed description of scattered radiation from the side walls of a channel in the shielding barrier can be obtained on the basis of the spectral angular distribution of an infinite plane monodirectional source. Orig. art. has: 2 figures

ASSOCIATION: None

SUBMITTED: 00

ENCL: 01

SUB CODE: NP

NR REF SOV: 004

OTHER: 003

Card 2/3

L 1306-66

ACCESSION NR: AT5023156

ENCLOSURE: 01

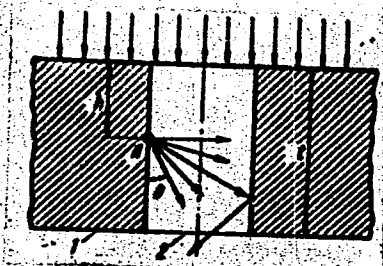


Fig. 1. Calculation of Spectral Angular Distribution of Radiation from a Channel in Shielding

Card

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L 41042-66 EWT(m)/EWP(t)/ETI IJP(c) JD/GG

ACC NR: AP0013735

(A)

SOURCE CODE: UR/0089/66/020/004/0351/0352

AUTHOR: Panchenko, A. M.

ORG: none

TITLE: Energy buildup factors in iron and lead for cosinusoidal sources

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 351-352

TOPIC TAGS: energy scattering, radiation effect, radiation source, gamma radiation

ABSTRACT: The paper presents energy buildup factors in iron and lead for point, disk, and plane infinite sources of γ -quanta with $\cos \theta$ and $\cos^2 \theta$ angular radiation distribution. The buildup factors, presented in the form of a table, were calculated by integrating the distribution function describing the intensity of scattered radiation from a point unidirectional source. The distribution curves are from earlier experimental investigations. Basic calculation formulas are also presented and briefly discussed. The author thanks V. P. Terent'yev and V. I. Polyakov for their help in carrying on the calculations. Orig. art. has: 5 formulas, 1 figure, and 1 table.

SUB CODE: 07,18/ SUBM DATE: 03Aug65/ ORIG REF: 004/ OTH REF: 000

Cord 1/1 *Lth*

UDC: 539.122:539.121.72

PANCHENKO, Aleksandr Mironovich; SHAFRAN, A.A., otv.red.; MIROSHNICHENKO,
V.D., red.izd-va; IL'INSKAYA, G.M., tekhn.red.

[Accounting in capital construction] Uchet v kapital'nom
stroitel'stve. Moskva, Ugletekhizdat, 1959. 85 p. (MIRA 12:4)
(Construction industry--Accounting)

107 250 J-9. 9991P) PROCESSES AND PROPERTIES INDEX

Derivatives of phenacyl sulfides and their properties. A. E. KANTOV, A. D. PANCHENKO AND A. KONOVALCHIK. *J. Gen. Chem.* (U. S. S. R.) 1, 310-44X (1931).

Bis(dimethylphenacyl) sulfide (I), obtained in poor yield by slowly adding with cooling and shaking 16 g. of cryst. Na_2S in 80 cc. of alc. to 25 g. of $\text{Me}_2\text{C}_6\text{H}_4\text{COCH}_2\text{Cl}$ (II) in 75 cc. of alc. to a faint alk. reaction, then adding 12 cc. of H_2O , and drying the wtd. oil over H_2SO_4 , sol. in EtOH , Et_2O and AcOH , insol. in H_2O , m. 55°. *Bis(methylphenacyl) sulfide dioxime*, obtained in 0.8 g. yield (67.37%), by treating 1 g. of $p\text{-MeC}_6\text{H}_4\text{COCH}_2\text{HS}$ (III) in 16 cc. of alc. with 0.5 g. NH_4OH HCl and 2.5 g. of cryst. Na_2CO_3 , then refluxing 2 hrs. in the water bath and pouring into cold water, m. 149-50°. I produced no oxime.

Monophenylhydrazones of III, obtained in 4-g. yield (72.7%) by mixing 5.5 g. of III in 15 cc. of alc. with 8.3 g. of PhNHNH_2 in 10 cc. of alc., then refluxing 15 min. in the water bath, and dilg. with H_2O , m. 137°. *Monophenylhydrazones* of I, obtained from 1.1 g. of I and 1.5 g. of PhNHNH_2 , as described above, m. 108-7°. $(\text{PhCOCH}_2)_2\text{SBr}_2$, obtained in 10-g. yield (23.8%) by adding with cooling 27 g. of Br in 10 cc. of AcOH to 27 g. of $(\text{PhCOCH}_2)_2\text{S}$ (IV) in 25 cc. of 100% AcOH , then pouring into 100 cc. of water, washing the oil with water until it becomes cryst., m. 101°, sol. in org. solvents, insol. in H_2O . No corresponding disulfides of I and III could be obtained in pure state. *Phenacyl mercaptan* (V) and its homologues were not produced before. The common method for prepn. of mercaptans by the action of alc. NaHS on the halogen deriva. $(\text{PhCOCH}_2\text{Cl})$ gives IV. V was obtained in 30-g. yield (73.2%) by refluxing 30 hrs. on the water bath a mixt. of 42 g. of PhCOCH_2Cl in 170 cc. alc. and 134 g. of cryst. Na_2S (100% excess in 45 cc. of H_2O), treating the cold reaction mass with HCl, extg. with Et_2O , drying with anhyd. Na_2SO_4 , distg. off the Et_2O , repeatedly dissolving in hot alc., filtering, and col. lecting the wtd. oil on cooling; it is a light yellow oil with a faint odor, sol. in org. solvents, insol. in H_2O , gives with Pb salts $(\text{PhCOCH}_2)_2\text{S}_2\text{Pb}$. CHAS. BLANC

ca

Determination of thiocyanate group in organic compounds. A. N. PANCHENKO AND G. S. SMIRNOV. J. Gen. Chem. (U. S. S. R., 2, 193 (1932). To 0.1-0.3 g of an org. thiocyanate in 7-10 cc alc add a satd. soln (about 10%) of cryst. Na_2S (free from halides) in alc (2-5 cc to every 0.1 g of the thiocyanate), reflux in a boiling water bath 15-30 min. (depending on the thiocyanate) until permanent dark color of the liquid is obtained, dil. with 80 cc water, add 20 cc 2 N H_2SO_4 , boil over a free flame until the odor of H_2S disappears, cool to 50-60°, add 30 cc of 0.1 N AgNO_3 , filter off the AgCNS in a Buchner, wash with water until free from AgNO_3 , and titrate the excess Ag^+ in the filtrate by the Volhard method. The method is based on the reaction: $2\text{RCNS} + \text{Na}_2\text{S} = \text{R}_2\text{S} + 2\text{NaCNS}$, and is applicable to aliphatic, aliphatic aromatic and aromatic compds. The addn. of Na_2S to thiocyanates contg. NH_4 in the mol. produces a coloring of the soln. which can be removed only by treating with 0.1 N KMnO_4 . No substitu- tion of alc. NaOH for Na_2S can be made in this method. Chas. H. and C.

ASD 11.4 METALLURGICAL LITERATURE CLASSIFICATION

PANCHENKO, A.N., inzh.

Machines for mechanized water supply and cattle watering.
Mashinostroenie no.5:107-111 S-O '63. (MIRA 16:12)

KULAKOVSKIY, I.V., inzh.; PANCHENKO, A.N., inzh.

Feed preparatory shop at the "Maiak-6" pig-rearing farm for
6,000 heads. Mashinostroenie no.5:99-104 S-O '63.
(MIRA 16:12)

FEDOROV, N.V., inzh.; PANCHENKO, A.N., inzh.

Unit for mechanical milking. Mashinostroenie no.4:96-98 J1-Ag '63.
(MIRA 17:2)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro Kiyevskogo soveta narodnogo khozyaystva.

PANCHENKO, A.N. (Kiyev)

Motion of a hydrofoil in a three-dimensional fluid flow at finite depth. Inzh. zhurn. 5 no.3:407-415 1964.

1. The first of these is the fact that the

information is not only accurate and reliable, but also

is of a high quality and is of great value to the

intelligence community.

GETMANSKIY, I.K., inzh.; PANCHENKO, A.F.; ZALIOPO, M.N., inzh.; DONETSKAYA, L.M.

Liquid shampoo made from purified alkyl sulfates of secondary synthetic alcohols. Masl.-zhir. prom. 27 no.9:17-18 S '61.

(MIRA 14:11)

1. Nauchno-issledovatel'skiy institut sinteticheskikh zhirozameniteley i moyushchikh sredstv (for Getmanskiy, Panchenko). 2. Fabrika "Svoboda" (for Zaliopo, Donetskaya).

(Shampoo)

GOLODNOVA, O.S., inzh.; DEGIL', G.S., inzh.; PANCHENKO, A.U., inzh.;
TUROS, A.E., inzh.; MESHKOV, V.K., inzh.

Concerning the seals of hydrogen cooled turbogenerators. Elek.
sta. 33 no.8:60-68 Ag '62. (MIRA 15:8)

1. Rostovenergo (for Golodnova). 2. Glavnoye upravleniye
energeticheskogo khozyaystva Donetskogo basseyna (for Degil',
Panchenko, Turos). 3. Moskovskoye rayonnoye upravleniye
energeticheskogo khozyaystva Glavtsentroenergo Ministerstva
elektrostantsiy SSSR (for Meshkov).
(Turbogenerators)

DEGIL', G.S., inzh.; PANCHENKO, A.U., inzh.; TUROS, A.E., inzh.;
SAPEL'NIKOV, K.N., inzh.; AVRUKH, V.Yu., inzh.; VOINOV, A.G., inzh.

Seals of water-cooled turbogenerators. Elek. sta. 34 no.5:72-
79 My '63. (MIRA 16:7)

1. Glavnoye upravleniye energeticheskogo khozyaystva Donetskogo
basseyna (for Degil', Panchenko, Turós). 2. Uralenergo (for
Sapel'nikov).

(Turbogenerators)

added while cooling 9 g. of cryst. Na_2S in 120 g. of alc. acid with H_2S filtered the next day, the filtrate acid with 2 vols. of H_2O , heavy yellow oil, yield 20.7 g. (91.35%) of crude IV and 11 g. When working with 50 g. of V there is obtained 19.5 g. (51.6%) of crude IV and 11 g. (32.7%) of crude I. IV is a sirupy mass of crystals, m. 101° , faint odor, insol. in H_2O and petroleum ether, sol. in alc., Et_2O and C_6H_6 . It shows double mol. wt., is decompd. on boiling with KOH to H_2S and VI, while reduction with III in AcOH produces VII. Phenylhydrazide shows none. To 19.6 g. of V in 20 cc. of alc. is added 8.5 g. of NH_4CNS in 35 cc. of warm alc., the mixt. brought to a boil filtered from NH_4Br , the filtrate cooled, acid with H_2O , yield 14 g. (70.4%), recrystd. 4 times from a mixt. of 1 part of C_6H_6 and 2 parts of ligroin, white, odorless needles, m. $63-5^\circ$, sol. in C_6H_6 and alc. Insol. in H_2O , petroleum ether, decompd. on distn. at 130° at atm. pressure and in vacuo to H_2S and resinous matter; on sapon. with alc. KOH it gives KCNS and III, which is decompd. with KOH into NH_3 and VI; reducing with III in AcOH produces a little of VII and resinous matter.

CHAS. BLANC

PANCHENKO, A. V.

Panchenko, A. V.: "Problems of the fight for air purification in flour mills and groats mills" (Paper presented at the Second Scientific Session of the Institute in 1940); Trudy In-ta (Odes. in-t inzhenerov makomol. prom-sti i elevator. khoz-va im. Stalina), Vol. II, 1948, p. 104-33.

SO: U-3042, 11 March 53, (Letopis 'nykh Stsey, No. 10, 1949).

PANCHENKO, A.V.; USHAKOV, K.A., doktor tekhnicheskikh nauk, professor, ~~zastupitel'nyy~~ ^{zastupitel'nyy} ~~deyatel'~~ ^{deyatel'} nauki i tekhniki; retsensent; TURKUS, V.A., dotsent, retsensent; KHANKHONKOV, V.I., kandidat tekhnicheskikh nauk; retsensent; VEREVKIN, N.I., kandidat tekhnicheskikh nauk, retsensent; DIMANT, P.I., inzhener, retsensent; GEL'MAN, D.Ya., redaktor; LABUS, G.A., tekhnicheskiiy redaktor.

[Ventilator systems for elevators, mills, groats and mixed feed plants] Ventilatsionnye ustanovki elevatorov mel'nits, krupianyykh i kombikormovykh zavodov. Izd. 2-e pererab. i dop. Moskva, Izd-vo tekhnicheskoi i ekonomicheskoi lit-ry po voprosam zagotovok, 1954. 371 p. (MLRA 7:11)

1. Dotsent Odesskogo tekhnologicheskogo instituta imeni Stalina (for
(Ventilation) Panchenko)

PANCHENKO, A. kandidat tekhnicheskikh nauk; GAL'PERIN, G., kandidat tekhnicheskikh nauk.

Roll reducing gear. Muk.-elev.prom. 20 no.12:18-21 D '54.

(MLRA 8:3)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina.
(Grain milling machinery)

PANCHENKO, A., kandidat tekhnicheskikh nauk.

Determining the relative weight of the component parts of milled products by means of self-indicating scales. Muk.-elev.prom. 22 (MLRA 9:5)
no.1:14-16 Ja '56.

1. Odesskiy tekhnologicheskii institut imeni I.V. Stalina.
(Grain milling)

PANDOLFO, A. V.

BARER, G.O.; BELETSKIY, V.Ya.; VORONKOV, P.I.; DEMIDOV, P.G.; IZYADZIO, A.M.;
DOMBROVSKIY, G.D.; ZOLOTAREV, S.M.; KRAVCHENKO, I.K.; PLATONOV, P.N.;
PANDOLFO, A.V.; UGOLIK, N.P.

V. I. Girshon. Muk.-elev. prom. 23 no.4:23 Ap '57. (MLRA 10:5)
(Girshon, Vasilii Iakovlevich, 1880-1957)

PANCHENKO, A.V.; OSTAPCHUK, N.V.; KOTLYAR, L.I.

Effect of the load volume of the roll mill on the intensity
of grain crushing. Izv.vys.ucheb.zav.; pishch.tekh. no.4:
117-123 '59. (MIRA 13:2)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina.
Kafedra tekhnologicheskogo oborudovaniya.
(Grain-milling machinery)

L 21439-66 EWT(m)/EWA(h)
 ACC NR: AP6007978 SOURCE CODE: UR/0018/66/000/003/0022/0025
 AUTHOR: Panchenko, A. (Colonel) 24
 ORG: none B
 TITLE: Offensive firepower of a tank battalion
 SOURCE: Voyenny vestnik, no. 3, 1966, 22-25
 TOPIC TAGS: military operation, ground force tactic, tactical warfare,
 armored vehicle, military tank
 ABSTRACT: The author discusses the advantages of using the firepower
 of a tank unit during an offensive, and indicates that the firepower
 of a tank battalion, almost equal to that of two artillery battalions,
 is capable of destroying small nuclear-missile installations such as
 the Davy Crocket. In order to gain an advantage over an entrenched
 tank, 3 to 4 tanks should be used in an attack, and about 10 tanks
 should be used along a 2-km section of the front line in a general
 offensive. In breaking through a combat line, it is most advantageous
 to use a nuclear warhead. In general the effectiveness of a tank unit
 depends on its firepower and on the tactics employed by its field
 commanders. [WH]
 SUB CODE: 19, 15/ SUBM DATE: none/ ATD PRESS: 4221
 Card 1/1 ULR

SUSLOV, V.M., otv.red.; VASIL'YEV, D.S., red.; GEYDEL'BERG, Ye.Z., red.;
IGNAT'YEV, B.K., red.; MOSKALENKO, V.I., red.; PANCHENKO, A.Ya.,
red.; UMEN, D.P., red.; TULIN, N.S., red.; ANTONOVA, H.M.,
khudozh.-tekhn.red.

[Collection of scientific research papers on oilseed and aromatic
plants] Sbornik nauchno-issledovatel'skikh rabot po maslichnym
i efiromaslichnym kul'turam. Moskva, Izd-vo M-va sel'.khoz.SSSR,
1960. 284 p. (MIRA 14:3)

1. Krasnodar. Vsesoyuznyy nauchno-issledovatel'skiy institut
maslichnykh i efiromaslichnykh kul'tur.
(Oilseed plants) (Aromatic plants)

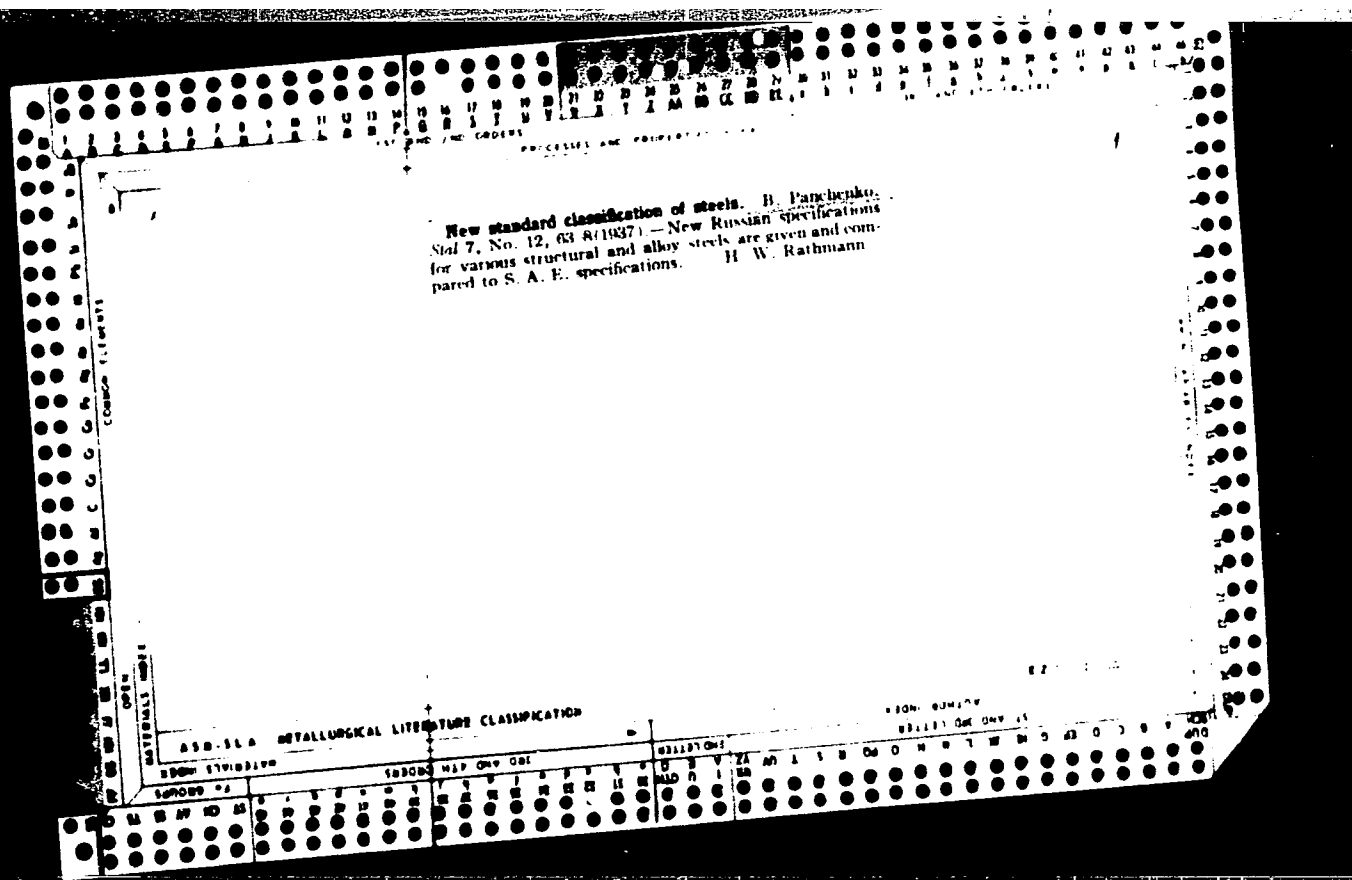
PANCHENKO, A. Ya., kand.sel'skokhozyaystvennykh nauk; VASIL'YEV, D.S.,
kand.sel'skokhozyaystvennykh nauk

Science offers inexhaustible possibilities for increased pro-
duction. Zemledelie 23 no.4:33-39 Ap '61. (MIRA 14:3)
(Agricultural research)

PUSTOVOYT, V.S., akademik, red.; SUSLOV, V.M., kand. ekon. nauk, otv. red.; ALEKSEYEVA, Ye.I., , kand. sel'khoz. nauk, red.; BUZINOV, P.A., red.; VASIL'YEV, D.S., kand. sel'khoz. nauk, red.; VOSKRESENSKAYA, G.S., red.; GUNDAYEV, A.I., red.; IGNAT'YEV, B.K., kand. sel'khoz. nauk, red.; MAKSIMOVA, A.Ya., red.; MOSKALENKO, V.I., red.; PANCHENKO, A.Ya., red.; TIKHONOV, O.I., red.; SHPOTA, V.I., kand. sel'khoz. nauk, red.; MONOVA, Ye.S., red.; LAPSHINA, O.V., red.

[Oilseed and aromatic crops; transactions for 1912-1926]
Maslichnye i efiromaslichnye kul'tury; trudy za 1912-1962 gg. Pod obshchei red. V.S.Pustovoita. Moskva, Sel'khozizdat, 1963. 575 p. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i efiromaslichnykh kul'tur. 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Pustovoyt). 3. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta maslichnykh i efiromaslichnykh kul'tur (for Suslov).



MARKOV, G. I., PANCHENKO, E. I.

Green's tensor of the field of rectilinear waves. The tensor of the
resonance. 127-135. (1964, 24v. 155. (1964, 1964, 1964)
1964.

ACCESSION NR: AP4039735

S/0141/64/007/002/0343/0351

AUTHOR: Panchenko, B. A.

TITLE: External partial admittances of a narrow straight slot in a plane screen

SOURCE: IVUZ. Radiofizika, v. 7, no. 2, 1964, 343-351

TOPIC TAGS: slot antenna, slot resonator, admittance, variational method, cavity resonator

ABSTRACT: The formulas are derived by using a variational technique which reduces essentially to the evaluation of bilinear functionals representing the external partial self admittances and mutual admittances of the aperture. The coordinate functions chosen are sinusoids with periods that are multiples of π/a (a -- width of the slot) in the y direction (along the slot), and either a constant or a parabola in the x direction (across the slot). The results obtained with

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ACCESSION NR: AP4039735

the two assumptions are practically the same, so that an equivalent slot width can be introduced. Plots of the partial admittances are presented for different aperture dimensions. These plots can be used for slot antenna calculations, but it is difficult to estimate their accuracy, although it appears to be adequate for engineering calculations, having been checked for the calculations of the total input impedances of cavities radiating through slots. Orig. art. has: 6 figures and 17 formulas.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

SUBMITTED: 10May63

DATE ACQ: 19Jun64

ENCL: 00

SUB CODE: EC

NR REF SOV: 001

OTHER: 005

Card 2/2

I 7935-66

ACC NR: AP5026195

SOURCE CODE: UR/0142/65/008/004/0427/0439

AUTHOR: Gridin, A. N.; Panchenko, B. A.

27
03

ORG: none

TITLE: Calculating the input impedance of cylindrical resonators radiating through a slot

SOURCE: IVUZ. Radiotekhnika, v. 8, no. 4, 1965, 427-439

TOPIC TAGS: waveguide, slotted waveguide

ABSTRACT: The excitation of an arbitrary resonator by a probe and the excitation of a slot-radiating resonator by a waveguide are considered; general formulas for the input impedance and input admittance are developed by the method of variations. The field inside the resonator is represented as a sum of incident and reflected waves of the corresponding waveguide. The general formulas are used for calculating the input impedance of a rectangular slotted

Card 1/2

UDC: 621.396.677.7

L 7935-66

ACC NR: AP5026195

resonator. Formulas for the self-impedance Z_{11} of an unloaded resonator, for the transfer factor, for the extrinsic admittance Y_n of the slot, and for the intrinsic resonator admittance Y_{22} on the slot side are derived. The latter formulas were verified by numerical examples and by comparing them with experimental results obtained from slotted waveguide models. Orig. art. has: no figures, formulas, or tables.

SUB CODE: 09 / SUBM DATE: 06Apr63 / ORIG REF: 001 / OTH REF: 002


Card 2/2

L 07550-67 EWT(1) WR

ACC NR: AF6026942

SOURCE CODE: UR/0141/66/009/004/0829/0831

AUTHOR: Panchenko, B. A.

39

ORG: Ural Polytechnic Institute (Ural'skiy politekhnicheskiy institut)

12

TITLE: Radiation admittance of longitudinal slots on a cylinder

SOURCE: IVUZ. Radiofizika, v. 9, no. 4, 1966, 829-831²⁵⁸

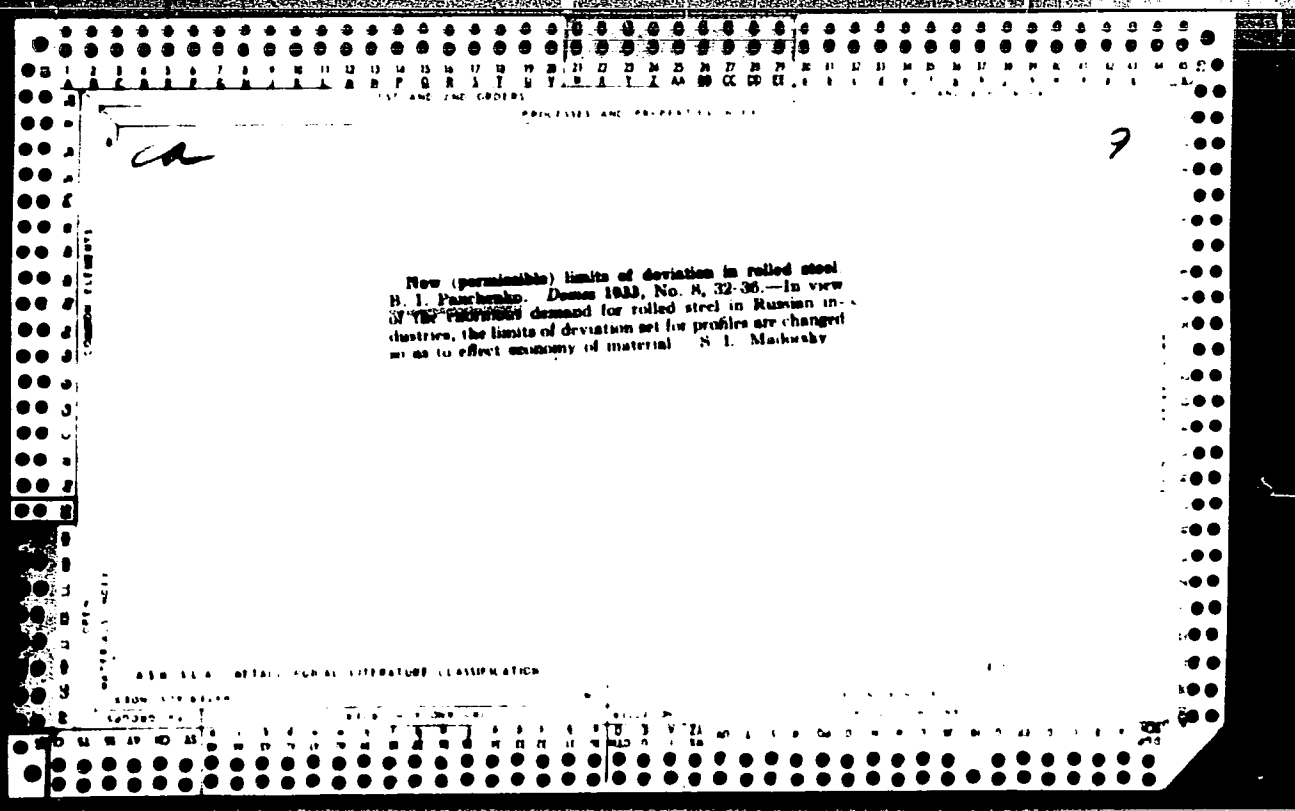
TOPIC TAGS: slot antenna, Green function, antenna engineering

ABSTRACT: The author presents formulas and graphs for the active and reactive components of the total impedance of a longitudinal slot on the surface of a circular conducting cylinder; the results are obtained by the method of induced magnetomotive forces, in which the intensity of the magnetic field is expressed in terms of a Green's function. The results are in the form of series of integrals, which were evaluated by numerical integration and by the use of Hankel functions. An analysis of the results shows a weak dependence of the active component of the admittance of narrow slots on the slot width. The resonant length of the slot decreases not only with increasing width of the slot, but also with decreasing radius of the cylinder. The reactive component of the admittance depends to a larger degree on the slot width than on the cylinder radius. This is connected with the local character of the reactive energy which determines the reactive part of the admittance. Orig. art. has: 5 figures and 6 formulas.

SUB CODE: 09/ SUBM DATE: 21Jan66/ ORIG REF: 002

Card 1/1 *egh*

UDC: 621.396.677.7: 621.3.011.2



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																									
CA PROCESSES AND PROPERTIES INDEX 9 New (permissible) limits of deviation in rolled steel. B. I. Panchenko. <i>Doklady</i> 1963, No. 8, 32-36.—In view of the enormous demand for rolled steel in Russian in- dustries, the limits of deviation set for profiles are changed so as to effect economy of material. S. L. Moshinsky ASB 55.4 METALLURGICAL LITERATURE CLASSIFICATION FROM: STEELMAKING TO: STEELMAKING																									
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26																									

PANCHENKO, B.I., inzh.

~~Signature of B.I. Panchenko~~

New standards for low-alloy steels. Bul. TSNIICHTM no.16:43-45 '57.
(Steel alloys—Standards) (MIRA 11:5)

10 MC 11 11 11 11 11
DOROSHEV, I.A.; TREMBITSKIY, Ya.V.; KARPINSKAYA, N.A.; PANCHENKO, B.I.,
redaktor; VALOV, A.N., redaktor izdatel'stva; MIKHAYLOVA, V.V.
tekhnicheskiiy redaktor

[Reference manual on pipes and cylinders. Compiled according
to government standards and technical specifications]
Spravochnik na truby i ballony. Sostavlen po Gosudarstvennym
standartam i tekhnicheskim usloviyam. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
1957. 175 p. (MLRA 10:5)

1. Russia (1923- U.S.S.R.) Ministerstvo chernoy metallurgii.
(Pipe, Steel--Standards) (Cylinders--Standards)

GRUBER, V.N.; PANCHENKO, B.I.; MUKHINA, L.S.; MIKHAYLOVA, T.A.

Synthesis of a dimethylsiloxane elastomer by the hydrolytic
condensation method. Vysokom.soced. 4 no.7:1042-1048 J1 '62.
(MIRA 15:7)

1. Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka
imeni S.V. Lebedeva.

(Silicon organic compounds)
(Rubber, Synthetic)

PANCHENKO, R. I.

(40)

PHASE I BOOK EXPLOITATION 80V/6044

Rokotyan, Ye. S., Doctor of Technical Sciences, Ed.

Prokhatnoye proizvodstvo; spravochnik (Rolling Industry; Handbook)
v. 2. Moscow, Metallurgizdat, 1962. 685 p. 8500 copies
printed.

Authors: P. A. Aleksandrov, Doctor of Technical Sciences;
V. P. Anisiforov, Candidate of Technical Sciences; V. I. Bayrakov,
Candidate of Technical Sciences; M. V. Barbarich, Candidate
of Technical Sciences; B. P. Bakhtinov, Candidate of Technical
Sciences [deceased]; B. A. Bryukhanenko, Candidate of Economic
Sciences; M. V. Vasil'chikov, Candidate of Technical Sciences;
A. I. Vitkin, Doctor of Technical Sciences; S. P. Granovskiy,
Candidate of Technical Sciences; P. I. Grudev, Candidate of
Technical Sciences; I. V. Gunin, Engineer; M. Ya. Dzugutov,
Candidate of Technical Sciences; V. G. Drozd, Candidate of
Technical Sciences; M. P. Yermolayev, Engineer; G. M. Katsnel'son,
Candidate of Technical Sciences; M. V. Kovynev, Engineer;
M. Ye. Kugayenko, Engineer; N. V. Litovchenko, Candidate of
Technical Sciences; Yu. M. Matveyev, Candidate of Technical
Sciences;

Card 1/14

40

Rolling Industry; Handbook

SOV/6044

Sciences; V. I. Meleshko, Candidate of Technical Sciences; N. V. Melkov, Engineer; A. K. Minburg, Candidate of Technical Sciences; V. D. Nosov, Engineer; B. I. Panchenko, Engineer; O. A. Plyatskovskiy, Candidate of Technical Sciences; I. S. Pobedin, Candidate of Technical Sciences; I. A. Priymak, Professor, Doctor of Technical Sciences [deceased]; A. A. Protasov, Engineer; M. N. Saf'yan, Candidate of Technical Sciences; N. M. Fedosov, Professor; S. N. Filipov, Engineer [deceased]; I. N. Filippov, Candidate of Technical Sciences; I. A. Pomichev, Doctor of Technical Sciences; M. Yu. Shifrin, Candidate of Technical Sciences; E. R. Shor, Candidate of Technical Sciences; M. M. Shternov, Candidate of Technical Sciences; M. V. Shuralev, Engineer; I. A. Yukhveta, Candidate of Technical Sciences; Eds. of Publishing House: V. M. Gorobinchenko, R. M. Golubchik, and V. A. Rymov; Tech. Ed.: L. V. Dobushinskaya.

PURPOSE: This handbook is intended for engineering personnel of metallurgical and machine-building plants, scientific research
Card 2/14

Rolling Industry; Handbook

SOV/6044

institutes, and planning and design organizations. It may also be used by students at schools of higher education.

COVERACE: Volume 2 of the handbook reviews problems connected with the preparation of metal for rolling, the quality and quality control of rolled products, and designs of roll passes in merchant mills. The following topics are discussed: processes of manufacturing semifinished and finished rolled products (the rolling of blooms, billets, shapes, beams, rails, strips, wire, plates, sheets, and the drawing of steel wire), hot-dipped tin plates, lacquered plates, floor plates, tubes made by different methods, and special types of rolled products. Problems of the organization of rolling operations are reviewed, and types of rolled products manufactured in the USSR are shown. No personalities are mentioned. There are no references.

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Card 13/14

PANCHENKO, D.

Geology, and oil and gas ptentials of the northern Black Sea
region. Geol. nefiti i gaza 4 no. 3:56-58 Mr '60. (MIRA 13:12)
(Black Sea region--Petroleum geology)
(Black Sea region--Gas, Natural--Geology)

TURUTA, N.U., kand. tekhn. nauk; PANCHENKO, D.F., inzh.

Short-delay blasting in open-pits and quarries of the
Ukrainian S.S.R. Met. i gornorud. prom. no. 4:50-53
Jl-Ag '63. (MIRA 16:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlen-
nosti, Kiyev.

TURUTA, N.P., KAMR. IERAN. 1971. 1971. 1971. 1971. 1971.
inzh.

Evaluating the risk of explosion of
of blasting. rev. VNA. 1971. 1971. 1971. 1971. 1971.

1. Ukrainskiy nauchno-issledovatel'skiy tsentr.

TURUTA, N.U., kand. tekhn. nauk; GALIMULLIN, A.T., kand. tekhn. nauk;
PANCHENKO, D.F., inzh.; KARPINSKIY, A.V., inzh.; KOVALEVSKIY,
S.Ye., inzh.

Studying the character of the breaking of a rock massif by
detonating borehole charges. Vzryv. delo no.54/11:145-153 '64.
(MIRA 17:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti,
Kiyev.

TURUTA, N.U., kand. tekhn. nauk; KRASNOPOL'SKIY, A.A., kand. tekhn. nauk;
PANCHENKO, D.F.; DANILOV, E.M.

System of blasting in "diagonal rows" in flux limestone
quarries. Met. i gornorud. prom. no.3:70-71 My-Je '65.
(MIRA 18:11)

TURUTA, N.U., kand. tekhn. nauk; GALLIMULIN, A.T., kand. tekhn. nauk;
KRASNOPOL'SKIY, A.A., kand. tekhn. nauk; ONISHCHENKO, V.Ya.,
inzh.; DANILOV, N.M., inzh.; KARPINSKIY, A.V., inzh.; PANCHENKO,
D.F., inzh.

Effectiveness of blasting systems in flux limestone quarries.
Vzryv. delo no.57/14:181-185 '65. (MLRA 18.11)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
'nstitut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti
UkrSSR i Dokuchayevskiy flyuso-dolomitnyy kombinat.

PANCHENKO, D. I.

24967. PANCHENKO, D. I. O zna-
chenii nevrita v patogeneze otmorozhenii.
(Khirurgiia, 1946. god 16, no. 1, p. 25-30,
6 fig.) *Title tr.:* On the significance of
neuritis in the pathogenesis of frostbite.

*Contains a histo-pathological study of
the nervous system of 12 subjects with
frostbite of various degrees, who died
largely from other causes. The implica-*

24967 CONT.

tions of the findings to the pathology of
frostbite are discussed.

Copy seen: DLC.

PANCHENKO, D. I.

Treatment of certain diseases of the nervous system in the health resort Liubin-Velikii. Sovet. med. No. 5, May 50. p. 28-9

1. Of the Clinic of Nervous Diseases, L'vov Medical Institute, L'vov.

CLML 19, 5, Nov., 1950

MIKHAYLOVSKIY, S.V., professor, zaslužennyy devatel' nauki Bashkirskoy ASSR, zaveduyushchiy kafedroy, MUZYKA, M.M., zaveduyushchiy, BARILYAK, K.M., GUBINA, K.M.; PANCHENKO, D.I., professor, direktor.

Streptomycin is an effective agent in the treatment of rhinoscleroma. Sov. emd. 17 no.5:20-22 My '53. (MLRA 6:6)

1. Klinika bolezney ukha, gorla i nosa (for Mikhaylovskiy, Barilyak and Gubina). 2. Kafedra mikrobiologii L'vovskogo meditsinskogo instituta (for Muzyka, Barilyak, and Gubina). 3. L'vovskiy meditsinskiy institut (for Panchenko). (Rhinoscleroma) (Streptomycin)

PANCHENKO, D. I.

[Obliterating endocarditis and the spontaneous gangrene in a neurological interpretation] Obliteriruiushchii endarteriit i spontannaya gangrena v nevrologicheskom osveshchenii. 2. izd. ispr. i dop. Kiev, Gos. meditsinskoe izd.-vo USSR, 1955. 251 p.
(ENDOCARDITIS) (GANGRENE)

PANCHENKO, D.I., professor, zasluzhennyy deyatel' nauki (Kiyev)

The role of vascular spasm in the pathogenesis of endarteritis
obliterans. Vrach.delo no.2:113-118 P '56. (MLRA 9:7)
(ARTERIES--DISEASES)

PANCHENKO, D.I., professor, zasluzhennyi deyatel' nauki (Kiyev)

The most frequent errors in diagnosing sciatica. Vrach.delo no.11:
1167-1171 N '56. (MIRA 10:3)
(SCIATICA)

PANCHENKO, D.I., zaslushennyi deyatel' nauk, professor (Kiyev)

Some errors in the diagnosis and treatment of cerebrovascular
diseases. Vrach.delo no.6:573-577 Je '57. (MLRA 10:8)
(BRAIN--DISEASES)
(BLOOD--CIRCULATION, DISORDERS OF)

~~PANCHENKO~~, D.I., prof., zasluzhenny deyatel' nauki (Kiyev, ul. Kreshchatik, d. 23)

Influence of some pathological factors on the regeneration of nerve trunks. Nov.khir.arkh. no.6:45-48 M-D '58. (MIRA 12:3)

1. Kafedra nervnykh bolezney (zav. - prof. D.I. Pachenko) Kiyevskogo instituta usovershenstvovaniya vrachey.
(NERVOUS SYSTEM--DEGENERATION AND REGENERATION)

PANCHENKO, D.I., prof., zasl. deyatel' nauki red.; ROMODANOV, A.P.,
red.; CHUCHUPAK, V.D., ~~tekhn.~~ red

[Problems in the regeneration of nerve trunks] Voprosy vos-
stanovleniia nervnykh stvolov. Kiev, Gos.med.izd-vo USSR,
1961. 248 p. (MIRA 15:2)
(NERVOUS SYSTEM—DEGENERATION AND REGENERATION)

PANCHENKO, D.I., zagluzhenyy deyatel' nauki, prof. (Kiyev)

Some results of treating hypertension in the dotron. Vrach.
delo no. 1:10-17 '61. (MIRA 14:4)
(HYPERTENSION)

PANCHENKO, D.I., zasluzhennyi deyatel' nauki, prof. (Kiyev)

Fragments of biotron study of hypertension. Vrach delo no.10:11-18
0 '61. (MIRA 14:12)

(MICROCLIMATOLOGY)

(HYPERTENSION)

PANCHENKO, D.I., prof., zasluzhennyi deyatel' nauki USSR

Biotron heals the sick. Nauka i zhyttia 11 no.1:35-38 Ja '61.
(MIRA 14:3)

(AIR, IONIZED—THERAPEUTIC USE) (HYPERTENSION)

ISAKOV, Yu.A.; LUKASHEVICH, L.P.; PANCHENKO, D.I.

Automatic conditioner with wide-range regulation of room microclimate
(Biotop-2). Vrach. delo no.12:111-117 D '61. (MLA 15:1)

1. Eksperimental'noye otdeleniye biotrona Kiyevskoy oblastnoy
bol'nitsy.

(CLIMATOLOGY, MEDICAL) (AIR CONDITIONING)

PANCHENKO, D.I., zasluzhennyi deyatel' nauki, prof. (Kiyev)

Biotron evidence on the significance of the adaptation reserve in
hypertension. Vrach. delo no.1:12-18 Ja '62. (MIRA 15:2)
(HYPERTENSION) (CLIMATOLOGY, MEDICAL)

PANCHENKO, D.I., zasluzhennyi deyatel' nauki, prof. (Kiyev)

Pathogenesis of cerebral pathology in hypertension according to
biotronic data. Vrach. delo 4:13-21 Ap '62. (MIRA 15:5,
(BRAIN—DISEASES) (HYPERTENSION)
(CLIMATOLOGY, MEDICAL)

PANCHENKO, D.I., zaslushennyi deyatel' nauki, prof. (Kiyev)

Polyetiological nature of hypertension; further observations in
the biotron. Vrach.delo no.12:31-38 D '62. (MIRA 15:12)
(HYPERTENSION) (CLIMATOLOGY, MEDICAL)

PANCHENKO, D.I., zasluzhennyy deyatel' nauki, prof. (Kiyev)

More about the Buddha phenomenon and its importance in the
complex of clinical examinations. Vrach. delo no.12:107-108
D '63. (MIRA 17:2)

VIRNITSKIY, A.R.; PANCHENKO, D.I. (Kiyev)

Review of E.V. Shmidt's book "Stenosis and thrombosis of the carotid arteries and disorders of the cerebral blood circulation." Vrach. delo no.11:150-151 N'63 (MIRA 16:12)

PANAMA ... (Riyer)

... MIRA ...

STEPANENKO, O.R., st. nauchn. sotr., otv. red.; LITVAK, L.B., zasl. deyatel' nauki, prof., zam. otv. red.; MAN'KOVSKIY, B.N., prof., red.; PANCHENKO, D.I., zasl. deyatel' nauki, prof., red.; TATARENKO, N.P., zasl. deyatel' nauki, prof., red.; SOKOLYANSKIY, G.G., prof., red.; GOLUBOVA, R.A., st. nauchn. sotr., red.

[Disorders of cerebral blood circulation (in the neurological clinic)] Rasstroistva mozgovogo krovoobrashcheniia (v nevrologicheskoi klinike). Kiev, Zdorov'ia, 1965. 258 p.

(MIRA 18:9)

1. Ukrainskiy nauchno-issledovatel'skiy psikhonevrologicheskii institut. 2. Ukrainskiy nauchno-issledovatel'skiy psikhonevrologicheskii institut (for Litvak). 3. Otdel nevrologii Ukrainского nauchno-issledovatel'skogo psikhonevrologicheskogo instituta (for Golubova). 4. Otdel vegetativnoy patologii Ukrainского nauchno-issledovatel'skogo psikhonevrologicheskogo instituta (for Stepanenko). 5. Kafedra nervnykh bolezney Donetskogo meditsinskogo instituta (for Panchenko).

CHIBUKMAKHEN, Naum Borisovich, prof.; GORBACHEV, Mikhail
Sergeyevich, prof.; SHAMOV, V.K., zas. deyatel' nauki,
prof., red. (deceased); LITVAK, L.E., zas. deyatel' nauki
prof., red.; PANCHENK, I.I., red.

[Atlas of surgery on the spinal cord: Atlas operatsii na
spinnom mozgu. Kiev, Zdrov'ia, 1965. 127 p.
(MIRA 18:1)]

PANCHENKO, Dmitriy Ivanovich, zasl. deyatel' nauki prof.;
PERFILOV, Petr Afanas'yevich, doktor med. nauk;
PRONIV, Daniil Ivanovich, doktor med. nauk;
CHESLOVSKIY, K.S., red.

[General and local phenomena in the process of the restoration of nerve trunks; studies in the biotron] Obshchie i mestnye yavleniya v protsesse vosstanovleniya nervnykh stvolov; issledovaniya v biotrone. Kiev, Zdorov'ia, 1964. 123 p. (MIRA 18:1)

A.C.S.

W. F. H. H. H.

Glasses without lead. D. M. PANCHENKO. *From*
Soviet. Materials, 1961, No. 2, pp. 22-23; *Russ. Review*
Zhur., 6 (9) 110 (1961).—Experiments were conducted on
the composition of a leadless glass with a melting point of
900° to 950°. Some samples contained a little borax and
some were without it. The glasses were investigated for
their spreading, adherence, resistance to leaching, color,
and coefficient of expansion of the body and the glass.
Compositions of glasses which gave satisfactory results
are given. The advisability of using glasses with small
amounts of lead for various ceramic products is pointed
out. M.Ho

15(2)

AUTHOR:

Panicheiko, D. M.

TITLE:

Easily Fusible Glazes for Ceramic Sewer Pipes (Legko-
plavkaya glazur' dlya keramicheskikh kanulizatsionnykh
trub)

PERIODICAL:

Steklo i keramika, 1959, Nr 4, pp 43 - 44 (USSR)

ABSTRACT:

In the Tavtimanovo Ceramic Works sewer pipes are produced from a mass containing 60% of local refractory clay and 40% of chamotte of this clay. For a longer period raw glazes were produced in these works on the basis of the easily fusible clay the composition of which is shown in the table. The melting temperature of these glazes is 1170 - 1200°. None of these glazes satisfied the requirements. The relatively high melting temperature of the glazes led to difficulties mainly when, at a suggestion of the Head of the Department N. P. Shishkin 20% of crushed fire-clay from simple clay bricks of the local brickworks instead of a corresponding amount of refractory chamotte were added in order to reduce the absorption of water by the body and to reduce the costs of the ceramic mass. Ex-

Card 1/2

Easily Fusible Glazes for Ceramic Sewer Pipes

1958-1959

periments with another local easily fusible glaze were carried out to lower the glaze melting temperature as its costs. This glaze contains 90% clay and 10% sulphate; it has a melting temperature of 1150°C and has been used successfully in the Works since April 1958. The mechanical strength of the pipes, the absorption of water, the acid resistance of the new body and the chemical stability of the glaze meet the demands of GOST 286-54. This is in table 1.

ASSOCIATION: Tavtimanovskiy keramicheskiy zavod (Tavtimanovo Ceramic Works)

Card 2/2

USSR/Geophysics - Earth's Origin Nov/Dec 53

"Conference held 27-28 March 1953 in Kiev on Contemporary Theories of the Origin and Development of the Earth," S.V. Gorak and D.Ye. Panchenko (reporters)

Iz Ak Nauk SSSR, Ser Geofiz, No 6, pp 571-573

Conference was organized by the Kiev regional branch of VNITO (All-Union Scientific Society of Engineers and Technicians [mining]) together with the Inst of Geol Sci, Acad Sci USSR, and the geol section of the Kiev House of Scientists. Participating in the conference were scientific workers

273188

and institute instructors, astronomers, geologists, geophysicists, geochemists of Moscow, Kiev, and L'vov. Reports were read by B.Yu. Levin, P.Ya. Galushko, Ye.S. Burkser, V.V. Belousov and N.F. Balykhovskiy.

PANCHENKO, D.Ye. [Panchenko, D.IU]

Some remarks on the article of M.S. Burshtar and I.F. Klitochenko
"Geology and oil and gas potentials of the northern Black Sea and
northwestern Azov regions. Geol. zhur. 19 no.3:98-103 '59.

(MIRA 12:10)

(Black Sea region--Petroleum geology)

(Black Sea region--Gas, Natural--Geology)

(Azov region--Gas, Natural--Geology)

PANCHENKO, D.Ye.

Concerning I.M. Sukhov's article "Age of lower Paleozoic barren
formations in the Dniester Valley." Izv.AN SSSR. Ser.geol. 26
no.11:111-113 N '61. (MIRA 14:10)
(Dniester Valley--Geology, Stratigraphic) (Geological time)

PANCHENKO, D.Ye.

Conditions governing the formation of the Valeny oil pool and
the problem of the gas potential of Neogene sediments in the
southern part of the Prut-Dniester interfluve. Izv. AN Mold.
SSR no.8:18-29 '63. (MIRA 18:5)

PANCHENKO, Dmitriy Yefimovich; BALUKHOVSKIY, N.F., doktor geol.-
miner. nauk, otv. red.; CHEPUR, N.D., red.

[Geology and prospects for finding oil and gas in the
southwestern part of the Ukraine and Moldavia] Geolo-
gicheskoe stroenie i perspektivy neftegazonosnosti
iugo-zapada Ukrainy i Moldavii. Kiev, Naukova dumka,
1965. 141 p. (MIRA 18:7)

PANCHENKO, D. Yu.

Silurian deposits of the southwest wing of the Dobruja region depression. Dop. AN URSS no.3:287-289 '55. (MIRA 8:11)

1. Institut geologicheskikh nauk Akademii nauk URSS. Predstaviv
diyeniy chlen Akademii nauk URSS V.G.Bondarchuk
(Dobruja--Geology, Stratigraphic)

Panchenko, D. Yu.

LEBEDEV, T.S. [Lebediev, T.S.], kand.geol.nauk; PANCHENKO, D.Yu.
[Panchenko, D.IU.], kand.geol.nauk

Some results of work of the scientific geological "Wednesdays."
Visnyk AN URSR 29 no.2:62-66 P '58. (MIRA 11:4)
(Ukraine--Geological research)

1ST AND 2ND GROUPS										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH GROUPS									
PAANCHENKO, E. V.																													
An investigation of cast iron rolls with hardened surfaces. V. N. Gridnev and E. V. Paanchenko, <i>Doklady Akad. Nauk SSSR</i>, No. 8, 19-27. Chem. analysis, phys. tests and micro- and makrographic investigations were made of 2 rolls and 14 disks cast from a cupola furnace. S. L. M.																													
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AN INVESTIGATION OF CAST IRON ROLLS WITH HOMOGENEOUS SURFACES. V. N. Gridnev and N. V. Panchenko. *Dokl. Akad. Nauk SSSR*, No. 8, 19-27. Chem. analysis, phys. tests and macro- and micrographic investigations were made of 2 rolls and 16 disks cast from a cupola furnace. S. L. M.

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NATIONAL BUREAU OF STANDARDS

PHYSICS AND PROPERTIES

CAST IRON

ROLLS

DISKS

CAST

FROM

CUPOLA FURNACE

ANALYSIS

TESTS

MACROGRAPHIC

MICROGRAPHIC

INVESTIGATIONS

MADE

OF

2

ROLLS

AND

16

DISKS

PANCHENKO, F.

Referring to the new statute. Okhr.truda i sots.strakh. 3 no.3:
52-53 Mr '60. (MIRA 13:7)

1. Tekhnicheskii inspektor Primorskogo kraysovprofa.
(Coal mines and mining--Safety measures)

PANCHENKO, P., tekhnicheskiy inspektor

Let's declare war on industrial accidents. Okhr. truda i sots.
strakh. 3 no. 12:53 D '60. (MIRA 13:12)

1. Primorskiy kraysovprof, g.Artem.
(Maritime Territory--Coal mines and mining--Safety measures)

L 24457-65 EWT(1)/EEC-4/EMA(h) Feb

ACCESSION NR: AP5005667

S/0223/64/000/010/0004/0008

25
15

AUTHOR: Panchenko, F. Ye. (Head of the signalization and communications service of the East Siberian Railroad); Rodygin, N. A. (Engineer of the railroad laboratory); Fomin, V. N. (Engineer of the railroad laboratory); Shtul'man, M. A. (Chief engineer)

TITLE: Use of waveguide conduits to assist radio communication on AC-electrified railroads

SOURCE: Avtomatika, telemekhanika i svyaz', no. 10, 1964, 4-8

TOPIC TAGS: waveguide, radio communication system, electric interference

Abstract: The introduction of AC electrification has presented very serious problems for existing automation, telemechanical and communication facilities. This is illustrated by the case of radio station ZHR-3, serving the East-Siberian Railway; on electrified portions of this line, the station encounters very high electrical interference. Theoretically the difficulty could be overcome by shifting to VHF, but in the specific range (150-160 Mc) Soviet radio technology has not been able to assure reliable and simple operation of stations. ZHR-3 has therefore taken up the use of waveguides on difficult segments of the route.

(Card 1/2)

L 24457-65

ACCESSION NR: AP5005667

This decision follows extensive research made during 1960-1962 on the East Siberian RR, by various research groups and the line's laboratory; the results of this research were reported in an article by A. A. TANTSUYURA, in the No 11, 1963 issue of this periodical.

Waveguide conduits suspended from overhead supports were proposed and introduced into service as early as 1957, on the Irkutsk-Slyudyanka RR (N. A. RODYGIN; this periodical, No 1, 1959), where they have demonstrated their superiority over multiwire conductors ever since; in 1963, the entire Irkutsk-Zima stretch of 240 km had to be similarly equipped.

The technical advantages and problems associated with waveguide conduits are covered in some detail by the present article. Orig. art. has 5 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

JPRS

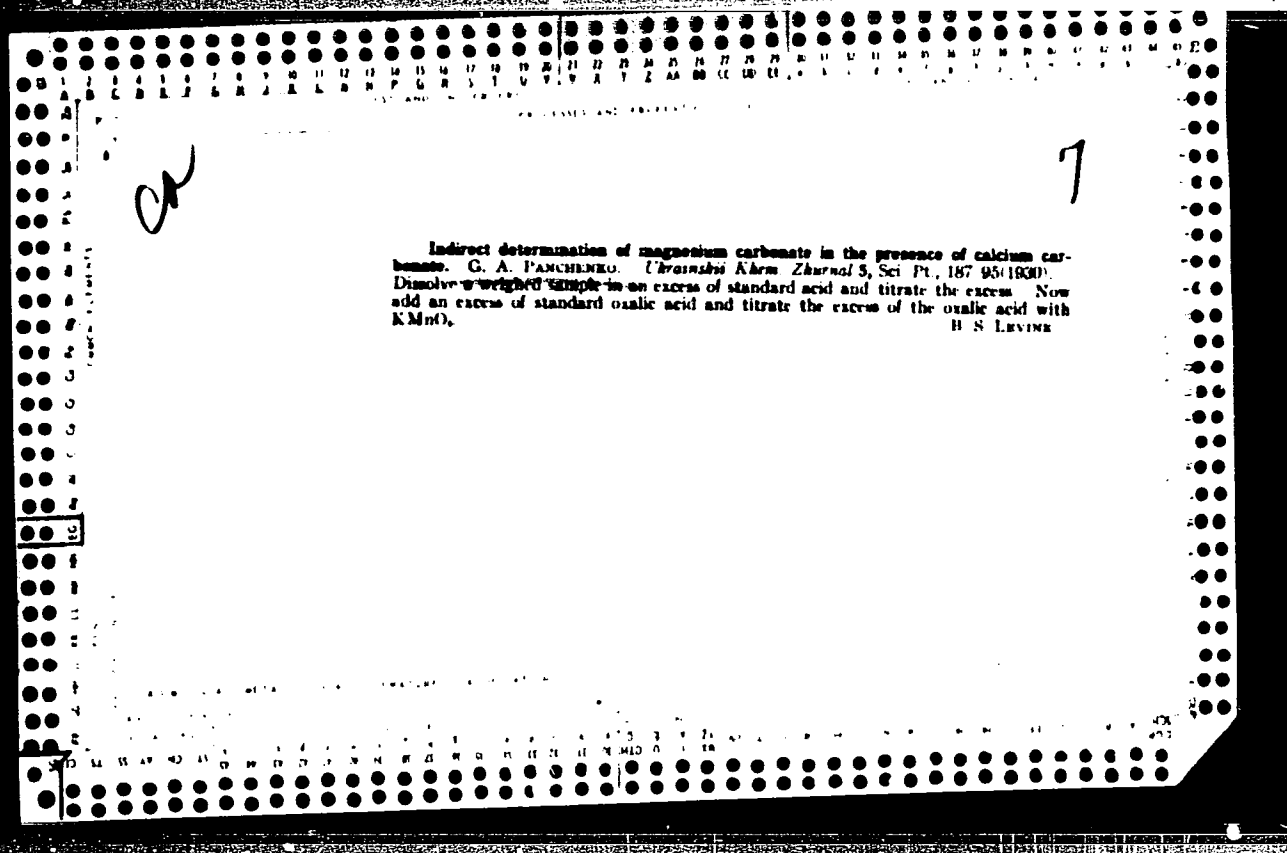
Card 2/2

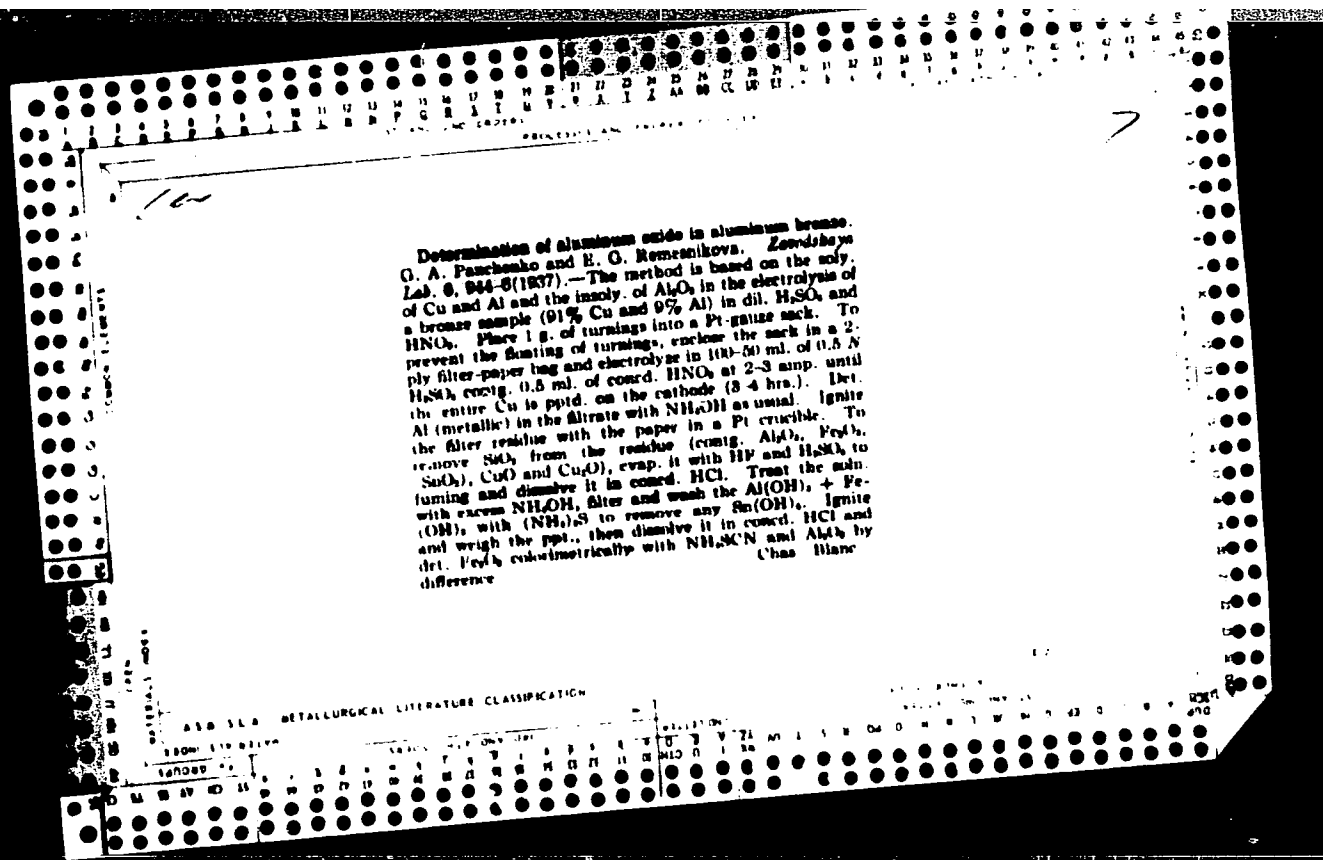
PANCHENKO, G.

Creameries

Mechanizing plants of the whole-milk industry. Mol. prom. 13, no. 1, 1952.

Monthly List of Russian Accessories. Library of Congress, October 1 [...]. UNCLASSIFIED.





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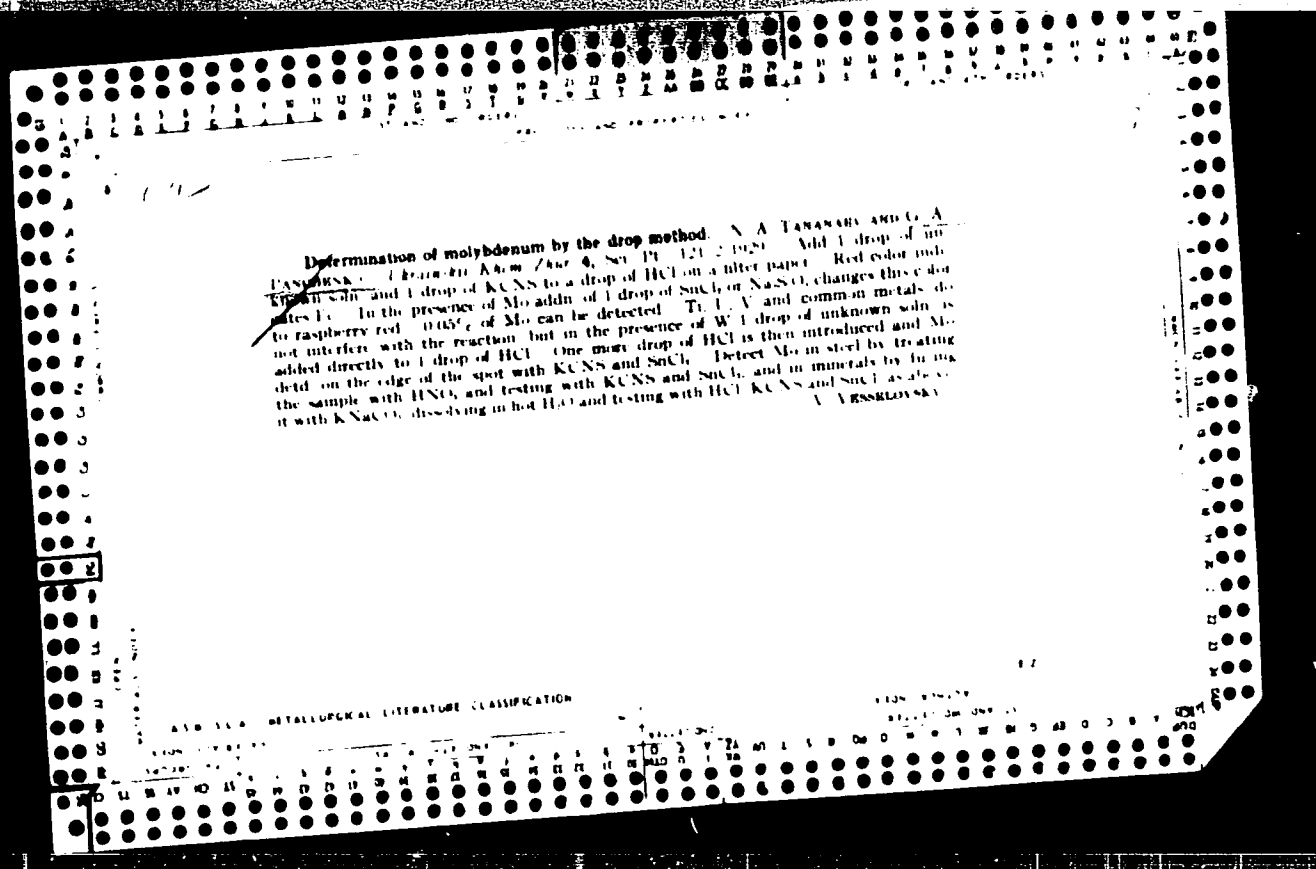
Processes and Properties Index

***Rapid Analysis of Zinc in Hot-Solventing Bath.** G. A. Panchenko (Zavod. Lab. (Works' Lab.), 1935, 4, (2), 221-223; C. Ab., 1935, 29, 4350). [In Russian.] Fe, Pb, and Al are determined in separate 1-gram samples of the Zn, dissolved in 15-20 c.c. concentrated HNO₃. To determine Pb, add 0.5-1 gram of citric acid and NH₄OH to the diluted solution, filter, and dissolve the precipitate of Pb and Zn citrate in an excess of acetic acid; then precipitate Pb(C₂H₃O₂)₂ with 10 c.c. of 0.1N K₂CrO₄ or K₂Cr₂O₇, filter, dissolve the Pb(C₂H₃O₂)₂ in HCl, add to the solution 1 gram KI and titrate with Na₂S₂O₃. To determine Al, make the solution slightly alkaline with NH₄OH, add 1-2 drops of litmus tincture, and add drop by drop a saturated solution of succinic acid until the litmus has a rose colour; then heat gently to dissolve Zn(OH)₂ and Pb(OH)₂, filter off the precipitate of basic Al and Fe succinates, wash with hot water, dry, ignite, and weigh. Fe is then estimated colorimetrically as Fe(CNS)₃, and Al taken by difference. N. B. V.

ASD 51A METALLURGICAL LITERATURE CLASSIFICATION

SECTION ONE

1ST AND 2ND ORDERS																										PROCESSING AND PROPERTIES INDEX																										3RD AND 4TH ORDERS																									
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COMMON ELEMENTS																																																																													
24 The determination of manganese in cupola slags. G. A. Panchenko and V. I. Ponomarevskii. <i>Sovetsk. Nauka, Izdatel'stvo Khim. i Metallovedeniya</i> 1937. No. 4, 301-311; <i>Khim. Referat. Zhur.</i> 1, No. 89, 121 (1938). — The results from a series of expts. indicate that Fe and Al are best sepd. from Mn, Mg, etc., by the succinate method. The persulfate method also proved excellent. A complete scheme of analysis is given for cupola slags. W. R. Henn																																																																													
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Rapid analysis of zinc in hot galvanizing baths. G. A. Patchenko. *Zavodskaya Lab.* 4, 231 (1968). Fe, Pb and Al are determined in sep. samples by dissolving 1 g. of Zn in 15-20 cc. of concd. HNO₃ and proceeding as follows. To det. Pb, add 0.5 g. of citric acid and NH₄OH to the dil. soln., filter off and dissolve the ppt. of Pb and Zn oxides in an excess of AcOH, ppt. Pb(OH)₂ with 10 cc. of 0.1 N K₂CrO₇ or K₂Cr₂O₇, filter off the PbCrO₄, dissolve it in HCl, add to the soln. 1 g. KI and titrate with Na₂S₂O₃. To det. Al, make the soln. slightly alk. with NH₄OH, add 1-2 drops of litmus reagent and add dropwise a 10% soln. of succinic acid until the litmus has a rose color, heat gently to dissolve Zn(OH)₂ and Pb(OH)₂, filter off the ppt. of basic Al and Fe oxides, wash with hot H₂O, ignite, weigh and det. Fe colorimetrically as Fe(CNS)₂ and Al by difference. Chas. Blanc.